

DERWENT-ACC-NO: 1983-30753K

DERWENT-WEEK: 198313

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TITLE: Lightweight corrosion-resistant
decorative sintered alloy - contains nickel, aluminium
and chromium

PATENT-ASSIGNEE: MITSUBISHI METAL CORP[MITV]

PRIORITY-DATA: 1981JP-0125760 (August 11, 1981)

PATENT-FAMILY:

PUB-NO	PAGES	PUB-DATE	MAIN-IPC
JP 58027946 A		February 18, 1983	N/A
003	N/A		
JP 85047892 B		October 24, 1985	N/A
000	N/A		

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP 58027946A	N/A	1981JP-
0125760	August 11, 1981	

INT-CL (IPC): C22C001/04, C22C019/03

ABSTRACTED-PUB-NO: JP 58027946A

BASIC-ABSTRACT:

Sintered alloy has a composition 20-27% Al, 1-10% Cr and balance Ni. It is useful as a watch case, tie clip, sleeve link etc. The alloy has the structure composed of a Ni(Cr)Al phase and a Ni(Cr)₃Al phase. It has excellent hardness, scratch-resistance and corrosion-resistance.

In the prepn., an alloy having desired composition is melted and pulverised

into a particle size of 10 microns or less. The obtd.
powder is heat-treated
at 800-1000 deg.C in a hydrogen gas or inert gas atmos.
Powdery mixture Ni-Al
alloy with Ni and Cr may be used, instead. The heat-
treated powdery compsn. is
compressed into desired body and sintered at 1300-1500
deg.C.

TITLE-TERMS: LIGHT CORROSION RESISTANCE DECORATE SINTER
ALLOY CONTAIN NICKEL
ALUMINIUM CHROMIUM

DERWENT-CLASS: M22 M26

CPI-CODES: M22-H03; M26-B08A; M26-B08C;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1983-030092